# Brian **Tu**

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## Education

**University of Waterloo**                                                  *Waterloo, Canada*

BACHELOR OF COMPUTER SCIENCE, HONOURS                                        *2020 - 2025*

- President's Scholarship of Distinction (95%+ average)

**Upper Canada College**                                                     *Toronto, Canada*

INTERNATIONAL BACCALAUREATE AND ONTARIO SECONDARY SCHOOL DIPLOMA             *2016 - 2020*

**Involvement:** Founder of Spirit Rock Band, Head of Ping Pong Club, World Affairs Conference Plenary Head, Robotics Team, Electronics Club, Math Society, Junior Varsity Soccer Team, Varsity Badminton Team, Horizons Tutor, Peer Tutor

## Experience

**TerraCycle Canada**                                                        *Toronto, Canada*

OPERATIONS INTERN, DIRECTLY SUPERVISED BY THE DIRECTOR OF OPERATIONS         *Jun 2019 - Aug 2019*

- Built a program in Excel to facilitate the jobs of warehouse workers in creating shipment labels for our products. This allowed them to efficiently generate custom labels without having to manually input information.
- Coded macros in Excel using VBA to organize data of TerraCycle clients, such as monthly audits.
- Helped design and minimize costs for zero waste boxes.

**UCC Club Program**                                                         *Toronto, Canada*

FOUNDER OF SPIRIT ROCK BAND & HEAD OF PING PONG CLUB                         *Sep 2018 - May 2020*

- Provided band members support and created playlist as the lead guitarist of the rock band. Recruited members, scheduled rehearsals, and organized performances for school events, including homecoming and assemblies.
- Implemented a new system that allowed students to play ping pong in their free time, instead of waiting for club meetings. This promoted both ping pong and student well-being. Organized ping pong tournaments and ran exercises and techniques during meetings.

**Horizons Tutoring**                                                        *Toronto, Canada*

MATH & ENGLISH TUTOR, CODING TUTOR, SOCCER COACH                             *Sep 2017 - May 2019*

- Tutored public middle school students mathematical problem-solving as well as reading, writing, and analytical abilities in English.
- Taught public students how to code in Scratch using the Cozmo robot. Went through various challenges to code Cozmo with Scratch.
- Provided soccer fundamentals and led soccer drills for public elementary school students. Promoted proper stretching, warm-up's and conditioning exercises.

## Projects

**CredID** (https://devpost.com/software/credid)**, UofTHacks VII, 2020**

AWARDED MOST INNOVATIVE USE OF TECH FOR GOOD, BEST DOMAIN REGISTERED

- A web application that provides people without an official identity a digital identity to get access to basic financial and medical services.
- Built using a biometric API that recognizes users faces to create their own identity, and stored on the Ethereum blockchain. This allows users to use their identity at banks and fulfill their financial needs.
- Developed the front-end of the application and contributed to Firebase and S3 databases.

**MyDudeBot** (https://devpost.com/software/mydudebot)**, Citizen Hacks, 2019**

- A Keybase bot is a way for users to check the own privacy on the Internet to see how much information about them is public. It also features fun and interactive ways for users to learn about privacy and security, such as PIPEDA.
- Programmed a bot in Keybase, a fully encrypted chat application, using python that allows users to mass search their name on the Internet realize how their data is being monitored.
- Coded the outputs to user messages using python as well as conducting research on privacy policies to teach the users about online security.

**$AID** (https://github.com/briantu/BLGHackForChange)**, BLGHack4Change, 2018**

- $AID is a solution to a large issue in humanitarian aid where money from investors and donors of NGOs gets corrupted.
- Created a website that allows users to donate their money to their desired NGO. Used blockchain to keep the transaction immutable and secure in order to ensure the donation is delivered to those in need.
- Built the smart contract for the cryptocurrency and helped in front-end development and design.

## Skills & Interests

**Programming:** Python, C/C++, Java, Swift, Javascript, HTML/CSS

**Languages:** English, Mandarin, French (knowledgeable)

**Hobbies:** Guitar, Soccer, Reading